

8007

Diag. Cht. Nos. 1107 & 1207-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. ECSP-05152 Office No. H-8007

LOCALITY

State MASSACHUSETTS

General locality BOSTON HARBOR

Locality TOWN RIVER BAY-WEYMOUTH FORE RIVER

194 52

CHIEF OF PARTY

C. R. Reed

LIBRARY & ARCHIVES

DATE JANUARY 28, 1954

8007

JAN 28 1954

Form 537
(Ed. June 1946)

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER NO. H-8007

Field No. ECSP 05152

State Massachusetts

General locality Boston Harbor

Locality Town River Bay - Weymouth Fore River

Scale 1:5000 Date of survey 30 June - 18 July 1952

Instructions dated 28 March 1952

Vessel East Coast Shore Party

Chief of party Clarence R. Reed

Surveyed by C.R. Reed & H.S. Foote

Soundings taken by fathometer, ^{and} ~~graphic recorder~~, hand lead, wire

Fathograms scaled by Party Personnel

Fathograms checked by C.R. Reed, H.S. Foote and R.H. Houlder

Protracted by Nancy L. Winn

Soundings penciled by Mary Keyton

Soundings in ~~fathoms~~ feet at MLW ~~MLLW~~ and are true depths.

REMARKS: This survey was smooth plotted in the Hydrographic Section of the
Norfolk Processing Office.

NOTES FOR
DESCRIPTIVE REPORT
TO ACCOMPANY

HYDROGRAPHIC SHEETS H-8005, H-8006, H-8007, (FIELD NOS. ECSP 1152, 1252, 05152)

BOSTON HARBOR, BOSTON, MASSACHUSETTS

EAST COAST SHORE PARTY

CLARENCE R. REED, CHIEF OF PARTY

PROJECT CS-246

1952

SCALES: 1:5000 & 1:10000

PROJECT: This survey was accomplished under Supplemental Instructions dated 28 March 1952, 22/MEK, FP East Coast, Project CS-246 which called for a basic hydrographic survey within the project limits, except in the dredged channels regularly surveyed by the United States Engineers. They were addressed to the Officer in Charge, USC&GS East Coast Field Party.

SURVEY LIMITS AND DATES (1152)

The survey on Sheet H-8005 (Field No. ECSP 1152) covers Hingham Harbor to latitude 42-15.76, Weymouth Back River to latitude 42-15.80, Weymouth Fore River to longitude 70-57.00 on the east and longitude 70-57.80 on the west; a channel development at approximate latitude 42-16.40 and longitude 70-56.70; and a shoal investigation at approximate latitude 42-16.30 and longitude 70-52.40.

A junction was made with Sheet No. H-7715 (1:10,000 - 1948) and a contemporary junction was made with Sheet No. H-8007, (Field No. ECSP 05152). The field work was accomplished between 17 April and 21 July.

The survey on Sheet H-8007 (Field No. ECSP 05152) covers Town River Bay and Weymouth Fore River to longitude 70-57.75. A contemporary junction was made with Sheet No. H-8005 (Field No. ECSP 1152). The field work was accomplished between 30 June and 18 July. H-8007

The survey on Sheet H-8006 (Field No. ECSP 1252) covers an area bounded on the west by longitude 70-49.40, on the east by longitude 70-48.00, on the north by latitude 42-16.45 and on the south by the shoreline. The survey junctioned with Sheet Nos. 6642 and 6643 (1:10,000-1940) on the west, with contemporary survey on sheet H- (Field No. HI-25/152) on the north and with contemporary survey on Sheet No. H-8009 (Field No. ECSP 05152) on the east. The field work was accomplished between 29 August and 25 September.

VESSEL AND EQUIPMENT Aluminum Launch No. 168 was used for the survey. The launch was operated from a shore base at Hingham, Massachusetts and a mooring at Cohasset Harbor.

This launch had a turning radius of 15 meters while running at sounding speed. Sounding speed for this launch was 5 knots at 1500 R.P.M.

On Sheet No. H-8007 (Field No. ECSP 05152) all echo soundings were obtained with Graphic Recorder No. 150 SPX. On Sheet No. H-8006 (Field No. ECSP 1252) all echo soundings were obtained with Graphic Recorder No. 139 SPX. On Sheet No. H-8005 (Field No. ECSP 1152) both Graphic Recorders were used. The transducers were mounted inboard.

TIDES AND CURRENTS The tide note is attached to this report. No currents were observed.

^{W 93}
SMOOTH SHEET The smooth sheet ~~is to be~~ plotted by the Norfolk Processing Office.

CONTROL STATIONS The control consisted mainly of triangulation stations and topographic stations located by planetable methods using a three point fix. On sheet No. ~~T-*~~ (ECSP Bb 1952) a traverse of 1000 meters was run with an error of closure of 4 meters. Hydrographic stations were located by using a three point fix taken at the station site. Several check angles were also taken at each station. The number of hydrographic stations was kept to a minimum and they were used as little as possible.

The control for Sheet No. H-8006 (Field No. ECSP 1252) consisted of triangulation and photogrammetric stations. The photogrammetric stations were transferred from Sheet No. T-9512 (1:10,000-1950).

SHORELINE AND TOPOGRAPHY The shoreline for the various ^{smooth} ~~boat~~ sheets was obtained as is shown below.

H-8005 (Field No. ECSP 1152) from T-5776 (1:10,000-1944)

H-8006 (Field No. ECSP 1252) from T-9512 (1:10,000-1950)

H-8007 (Field No. ECSP 05152) from T-5776 (1:5000-1944)

revisions of air photos of 1951, which enlargement was destroyed.

There were no major inaccuracies in the shoreline. The hydrographer sketched certain minor changes directly onto the boat sheet.

SOUNDINGS The depths were measured with graphic recorders and hand leads. Bottom samples were obtained with armed handleads.

CONTROL OF HYDROGRAPHY The sounding lines of this survey were controlled by the three-point-sextant-fix method. There were no unusual "jumps" when changing control stations. Fixes were taken at 1 to 2 minute intervals. In the upper reaches of creeks where hydrographic control was lacking, positions of sounding lines were referred to distinctive shoreline details. Appropriate remarks were entered in the sounding record.

ADEQUACY OF SURVEY This survey is complete and considered adequate to supersede prior surveys. The junctions with adjoining sheets are satisfactory. There are no holidays and depth curves can adequately be drawn at the junctions.

CROSSLINES Crosslines required by the Supplemental Instructions were run during the progress of the work. The crossings were in good agreement.

COMPARISON WITH PRIOR SURVEYS A comparison made with surveys H-2162, and H-2163 (1:10,000-1893) showed no major changes other than the natural changes that can be expected over a period of ~~50~~ years.

Some of the channels have been dredged in recent years, therefore spot-checks were made with the following U. S. Engineers surveys:

In Town River Bay:

Dr. 18; File No. 183; March, 1947 *Bp 42193*

Dr. 18; File No. 187; October, 1947 *Bp 42936*

In Weymouth Fore River:

Dr. 24; File No. 311; February, 1949 *Bp 45201-03, 45289*

** Topo signals originate with graphic control surveys ESCP-Ba-52 and ESCP-Bb-52, which are marked for destruction.*

COMPARISON WITH CHART Chart No. 246 - 12 February 1951 (25th Edition)

Latitude	Longitude	1952 Survey	Chart	Remarks
Sheet No. H-8005 (Field No. 1152) Hingham Harbor				
42-15.71	70-52.92	4-5 ft.	10 ft.	Six foot curve in this area does not extend as far north as shown on chart.
42-15.60	70-53.40	Sunken rock	Sunken rock	As charted.
42-15.55	70-53.37	7½ ft.	6 ft.	Shoalest sounding, item 2 of Preliminary Review, Project CS-246

Sheet No. H-8005 (Field No. 1152) Weymouth Back River

42-15.40	70-55.08	7-8 ft.	2 ft.	Shoal does not extend as far off shore as shown on chart.
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Sheet No. H-8005 (Field No. 1152) Weymouth Fore River

42-15.94	70-57.76	- - - -	Boiler	No sign of this boiler was found during the survey in this area.
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Sheet No. H-8007 (Field No. 05152) Town River Bay

42-14.94 ⁵	70-58.39	Wreck	Wreck	As charted, verified as per Preliminary Review, Project CS-246. ✓ L 55
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Sheet No. H-8007 (Field No. 05152) Weymouth Fore River

42-13.94 ⁸	70-57.58	Pier ruins	Wreck	No wreck was found in this area, only a pier in ruins. ✓ L 55
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Sheet No. H-8006 (Field No. 1252) Black Rocks-Black Ledge

42-16.30	70-48.50	19 ft.	24 ft.	Shoalest sounding
42-16.40	70-48.33	28 ft.	29 ft.	do
42-16.32	70-48.76	23 ft.	22 ft.	do

COAST PILOT INFORMATION The Coast Pilot notes were reviewed and no important corrections or additions were found. In U.S.C.P. -Atlantic Coast-Section A-1950, page 348, line 17 the following phrase should be inserted: "This channel is marked with temporary buoys."

AIDS TO NAVIGATION

The following channels are marked by unofficial aids:

Weymouth Fore River-below latitude 42-14.00- temporary markers maintained by the Weymouth Yacht Club.

Hingham Harbor-channel to head of bay- Temporary markers maintained by Harbormaster.

*pos. 15g states
"channel marked
with temporary
red spars."*

LANDMARKS FOR CHART There are no landmarks to report.

GEOGRAPHIC NAMES No changes or additions were found.

MISCELLANEOUS The area SE of Grape Island and SW of Slate Island at the entrance to Weymouth Back River is shoaling. Extensive mussel beds are developing in this area.

Detached positions located by skiff relating to sheet H-8006 (ECSP-1252) were recorded in two volumes submitted with Project CS-349.

Beyond present survey limits.

TIDE NOTE TO ACCOMPANY

Hydrographic Survey Sheets: H-8005, H-8006, H-8007

Observations were obtained at eight tide stations. Portable automatic tide gages were maintained at all of these stations except Weymouth Fore River Bridge, which was a standard automatic gage. Limits of the area in which each was used is shown on the boat sheet in blue ink. No difference in time and height was applied to the observed tides. Planes of reference were furnished by the Washington Office or computed from elevations of previous tidal bench marks.

<u>STATION</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>MLW ON STAFF</u>
Eastern Neck(Weymouth Back River)	42-15.28	70-55.36	2.2 ft.
Naval Depot (Weymouth Back River)	42-14.39	70-55.61	3.9 ft.
Crow Point (Hingham Harbor)	42-15.75	70-53.61	1.8 ft.
Hingham Town Wharf(Hingham Harbor)	42-14.76	70-53.12	1.9 ft.
<u>Fore River Bridge</u>	42-14.66	70-58.08	1.8 ft. ✓
<u>Town River Bay</u>	42-15.22	70-58.74	1.5 ft. ✓
<u>Weymouth (Weymouth Fore River)</u>	42-13.47	70-57.88	3.1 ft. ✓
White Head (Cohasset Harbor)	42-14.94	70-47.04	3.0 ft.

H-8007

FATHOMETER CORRECTIONS

HYDROGRAPHIC SURVEY

H-8005 (FIELD NO. ECSP 1152)
 H-8007 (FIELD NO. ECSP 05152)
~~H-8006~~ (FIELD NO. ECSP 1252)

The corrections tabulated below are based on an initial set with a correct sounding of twelve feet. Where the initial on the fathogram varies from the correct setting, INDEX CORRECTIONS must be entered in the sounding volumes. All depths were obtained on the (A) or (B) Range, FOOT SCALE.

All corrections are positive unless otherwise noted.

FATHOMETER NO. 139 SPX

and

FATHOMETER NO. 150 SPX

16 May --- 23 June

(A) Scale

Corr.	Depth	
	From	To
-1.0	2.8	2.9
-0.8	3.0	3.1
-0.6	3.2	3.3
-0.4	3.4	3.5
-0.2	3.6	3.9
-0.0	4.0	Sdg. Limit

24 June --- 21 July

(A) Scale

-1.2	1.0	2.9
-1.0	3.0	3.2
-0.8	3.3	3.3
-0.6	3.4	3.8
-0.4	3.9	4.8
-0.2	4.9	8.2
-0.0	8.3	18.0
0.2	18.1	Sdg. Limit

(Cont. From Page 1)

22 July --- 14 Aug.

(A) Scale

Corr.	Depth	
	From	To.
-1.0	2.8	2.9
-0.8	3.0	3.1
-0.6	3.2	3.3
-0.4	3.4	3.5
-0.2	3.6	3.9
0.0	4.0	19.5
-0.0	19.6	34.-
-0.4	34.1	48.5
-0.6	48.6	Sdg. Limit

(B) Scale

Corr.	Depth	
	From	To
-1.8	34.5	48.5
-2.0	48.6	62.5
-2.2	62.6	76.5
-2.4	76.6	Sdg. Limit

FATHOMETER NO. 139 SPX

15 August - 14 October

(A) Scale

Corr.	Depth	
	From	To.
-1.0	2.8	2.9
-0.8	3.0	3.1
-0.6	3.2	3.3
-0.4	3.4	3.5
-0.2	3.6	3.9
-0.0	4.0	19.5
-0.2	19.6	34.0
-0.4	34.1	48.5
-0.6	48.6	Sdg. Limit

(B) Scale

Corr.	Depth	
	From	To
2.0	35.0	48.5
1.8	48.6	62.0
1.6	62.1	Sdg. Limit

APPROVAL SHEET - HYDROGRAPHIC SURVEYS

H-8005 - H-8006 - H-8007

The records and boat sheets for Hydrographic surveys numbered H-8005, H-8006, and H-8007 have been inspected by me and are approved.

/s/ Clarence R. Reed

Clarence R. Reed
CDR, USC&GS
OinC, East Coast Shore Party

FLOATING AIDS TO NAVIGATION
H-8007

<u>LIGHT LIST</u>	<u>LAT. & LONG.</u>	<u>DEPTH</u>	<u>POS. NO.</u>	<u>DATE</u>
Town R. Bay Chan. Buoy 2	42-14.95 ✓ 70-58.17 3	26	1a	6/30/52
Town R. Bay Chan. Buoy 4	42-15.02 ✓ 70-58.35 ✓	29	2a	6/30/52
Town R. Bay Chan. Buoy 6	42-15.10 ✓ 70-58.47 ✓	24	3a	6/30/52
Town R. Bay Chan. Buoy 1	42-15.20 ✓ 70-58.61 ✓	17	4a	6/30/52
Town R. Bay Chan. Buoy 3	42-15.23 ✓ 70-58.68 ✓	26	5a	6/30/52
Town R. Bay Chan. Buoy 10	42-15.28 ✓ 70-58.92 ✓	19	8a	6/30/52
Town R. Bay Chan. Buoy 12	42-15.28 9 70-59.07 ✓	12	9a	6/30/52
Yard Yacht Chan. Chan. Buoy 1	42-15.32 ✓ 70-58.73 ✓	2	24a	6/30/52
Yacht Yard Chan. Buoy 2	42-15.37 ✓ 70-58.72 ✓	5	25a	6/30/52
Yacht Yard Chan. Buoy 3	42-15.41 0 70-58.73 ✓	7	26a	6/30/52
Town R. Bay Chan. Buoy 5	42-15.21 ✓ 70-58.87 ✓	25	47b	7/1/52
Town R. Bay Chan. Buoy 8	42-15.24 ✓ 70-58.84 ✓	23	1c	7/2/52
Weymouth Fore R. Chan. Buoy 10	42-14.86 5 70-57.77 ✓	32	31f	7/9/52

LIST OF SIGNALS

H-8007

TRIANGULATION STATIONS

BRAIN✓ BRAINTREE, CITIES SERVICE STACK, 1934
 TIM✓ (WEYMOUTH, TRANSMISSION NO. 1, 1934)
 MISS✓ WEYMOUTH TRANSMISSION NO. 3, 1934
 SON✓ WEYMOUTH, EDISON, WEST STACK, 1934
 EAST✓ WEYMOUTH, EDISON, EAST STACK, 1934

TOPOGRAPHIC STATIONS

(Source - ECSP-Bb-52) (Destroyed)

Ant✓ Axe✓ Bag✓ Cow✓ Dan✓ Dud✓ Egg✓ Eva✓ Far✓ Fat✓ Gag✓
 Jap✓ Joe✓ Lux✓ Mop✓ Ned✓ Pan✓ Peg✓ Pit✓ Set✓ Ski✓ Sub✓
 Toy✓ Wax✓ Wey✓

(Source - ECSP-Ba-52) (Destroyed)

Bee✓ Cab✓ Can✓ Dog✓ Dol✓ Fin✓ Fox✓ Her✓ Him✓ Ida✓ Lad✓
 Lot✓ Red✓ Rob✓ Sam✓ Sis✓ War✓ Yao✓ Zoo✓

HYDROGRAPHIC STATIONS

Kay✓ Vol. 1, pg. 16
 Mat✓ Vol. 2, pg. 18
 Roy✓ Vol. 2, pg. 14
 Tax✓ Vol. 2, pg. 13

*Signals circled do not plotted
 on smooth sheet. J.E.*

STATISTICS TO ACCOMPANY HYDROGRAPHIC SHEET H-8007

(FIELD NO. ECSP 05152)

Date 1952	Day Ltr.	Vol. No.	Lead Lines	No. Of Positions	Stat. Mi. Sdgs.
30 June	a	1	16	40	2.5
1 July	b	1	2	63	5.1
2 "	c	1	1	51	3.7
3 "	d	1	0	15	1.2
8 "	e	1&2	0	76	8.6
9 "	f	2	1	73	5.3
14 "	g	2&3	4	58	4.2
15 "	h	3	2	40	3.0
18 "	j	3	0	60	2.7
TOTALS -----			26 ✓	476 ✓	36.3

Area in square statute miles: 0.9

ADDENDUM
To Accompany

HYDROGRAPHIC SURVEY H-8007 (Field No. ECSP-06152)

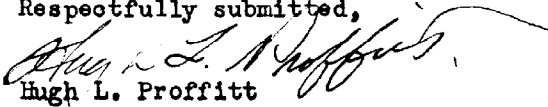
GENERAL

Corps of Engineers prints of this area are not on hand at this Office, how-ever, it appears that additional sounding lines are needed to draw better than approximate depth curves on this survey. | *See P 5 & 6 of Review.*

SHORELINE

Shoreline in the vicinity of Lat. 42-15.1, Long. 71-59.0, is shown ✓
in red ink to conform with changes indicated on the boat sheet.

Respectfully submitted,


Hugh L. Proffitt
Cartographer.

Norfolk, Va.
25 Jan. 1954

GEOGRAPHIC NAMES

Survey No. H-8007

GEOGRAPHIC NAMES		Survey No. H-8007										
Name on Survey												
	A	B	C	D	E	F	G	H	K			
Massachusetts			} for title							B.G.M.	1	
Boston Harbor												2
Hingham Bay				"	"	"						3
											4	
Weymouth Fore River											5	
Town River Bay											6	
Quincy Point											7	
King Cove						Names approved 2-1-54.					8	
Hole Point								L. Heck.			9	
Shipyard Point											10	
											11	
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											27	

M 234

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H-8007....

Records accompanying survey:

Boat sheets .1....; sounding vols. .3....; wire drag vols.;
 bomb vols.; graphic recorder rolls 2. Env.;
 special reports, etc. 1. Smooth Sheet; 1. Descriptive Report;.....
1 film positive - EG.

The following statistics will be submitted with the cartographer's report on the sheet;

Number of positions on sheet	476
Number of positions checked	72
Number of positions revised	4
Number of soundings revised (refers to depth only)	22
Number of soundings erroneously spaced	97
Number of signals erroneously plotted or transferred	1
Topographic details	Time 24
Junctions	Time 1
Verification of soundings from graphic record	Time 4

Verification by J. E. GEARHART Total time 140 Date 7-22-54

Reviewed by [Signature] Time 30 Date 7-21-54

8 hrs - 14 min

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8007

FIELD NO. ECSP-05152

Massachusetts, Boston Harbor, Town River Bay - Weymouth Fore River

Project No. CS-246

Surveyed-June-July, 1952

Scale 1:5000

Soundings:

Control:

808 Fathometer

Sextant fixes on
shore signals

Chief of Party - C. R. Reed
Surveyed by - C. R. Reed and H. S. Foote
Protracted by - N. L. Winn
Soundings plotted by - M. Keyton
Verified and inked by - J. E. Gearhart
Reviewed by - I. M. Zeskind 7-21-54
Inspected by - R. H. Carstens

1. Shoreline and Control

The shoreline originates with a film enlargement of air-photographic survey T-5776 (1944) showing revisions from air-photographs of 1951. The film enlargement was destroyed. (see 8p 48714)
Changes in shoreline originating with the boat sheet of the present survey and the air-photographs of 1951 are shown on the smooth sheet in red.

The source of the control is described in the Descriptive Report.

2. Sounding Line Crossings

Depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves are adequately delineated.

This survey covers an area of river and bay bottom which is generally smooth except for channel deeps. Several extensive

mud flats extend from shore to the channels. Much of the deeper areas ~~are~~ dredged.

4. Junctions with Contemporary Surveys

The junction with H-8005 (1952) at Germantown Pt. in Weymouth Fore River will be considered in the review of that survey. Soundings were carried to the head of navigation in other areas.

5. Comparison with Prior Surveys

H-1021 (1869), 1:10,000

H-2162 (1893), 1:10,000

A comparison between the early surveys and the present survey reveals numerous changes in the bottom configuration and shoreline due to natural and artificial causes, such as the action of the current on the bottom, the construction of piers and bulkheads and the reclaiming of land. Channels have been dredged in Town River Bay and in Weymouth Fore River in the vicinity of Quincy Point. No important changes are noted in areas not dredged.

The present survey is adequate to supersede prior surveys within the common area.

6. Comparison with Chart 246 (Latest print date 9-28-53)

A. Hydrography

In areas outside of the dredged channels, the charted hydrography originates with the Port of Boston Authority and the U. S. Corps of Engineers' surveys accomplished prior to 1950. Except for the Corps of Engineers' survey of 1948 (Bp. 45289), the present survey is adequate to supersede these prior surveys in charting the common area. The Corps of Engineers' survey, Bp. 45289 covering the dredged area south of the bridge at Quincy Point reveals several shoals not developed on the present survey, as for example in lat. $42^{\circ}14.38'$, long. $70^{\circ}58.16'$, where a 23-ft. sounding falls in present depths of 27 ft. Bp. 45289 should supplement the present survey in charting the area. Only remains of a pier were found in lat. $42^{\circ}13.90'$, long. $70^{\circ}57.58'$, where wrecks are charted from T-5776 (1944). The wrecks are considered to be nonexistent. In the vicinity of the dredged channels, the charted information originates with the U. S. Corps of Engineers' survey of 1952 (Bps. 49607-09), which were accomplished subsequent to the present survey.

9/5/54
 L. S. S.
 No soundings retained from this 1948 Hydro work.

B. Dredged Channels

The charted information in the dredged channels in Town River Bay and Weymouth Fore River is from U. S. Corps of Engineers' surveys accomplished subsequent to the present survey and supersedes the present survey.

C. Aids to Navigation

The present survey positions of aids to navigation are in substantial agreement with the charted positions and adequately mark the features intended.

7. Condition of Survey

- a. The Descriptive Report and sounding records are complete.
- b. The smooth plotting was accurately done.
- c. The development of several inshore areas is incomplete. These areas are as follows:

In the vicinity of the piers and marine railways in lat. $42^{\circ}15.45'$, long. $70^{\circ}58.70'$. ✓

In the vicinity of the piers and marine railways from lat. $42^{\circ}14.95'$, to lat. $42^{\circ}15.10'$, in approximate long. $70^{\circ}58.50'$. ✓

In the slip in lat. $42^{\circ}14.55'$, long. $70^{\circ}58.30'$. ✓

In the vicinity of lat. $42^{\circ}14.17'$, long. $70^{\circ}58.20'$. ✓ 455.

8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions, except as noted in paragraph 7c above.

9. Additional Field Work Recommended

This is a good survey. However, it is recommended that development of the inshore areas mentioned in paragraph 7c above be completed.

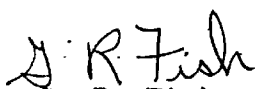
Examined and approved



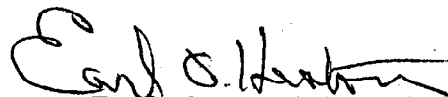
H. R. Edmonston
Chief, Nautical Chart Branch



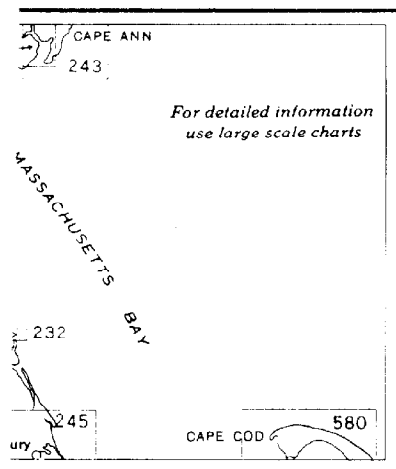
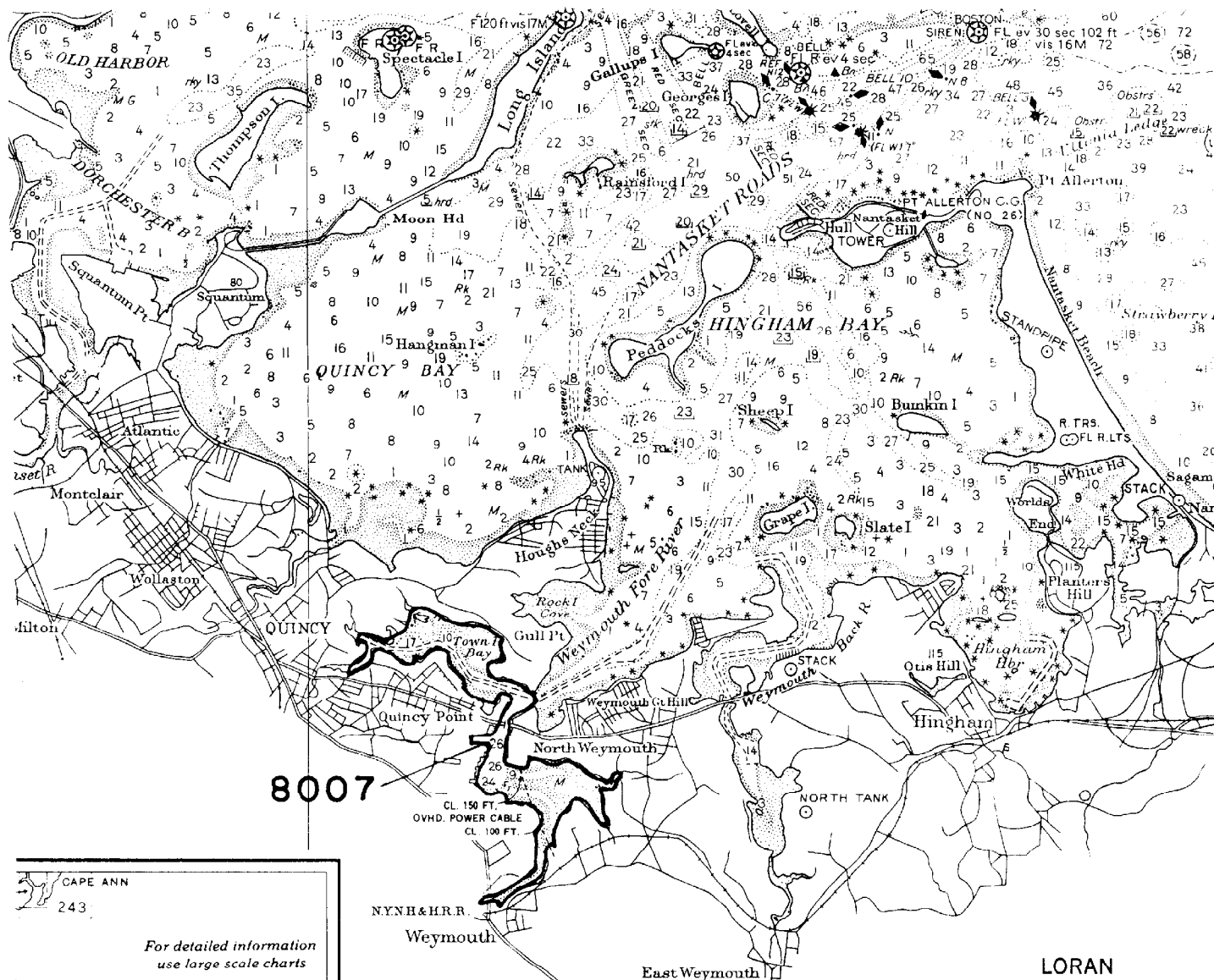
H. Arnold Karo
Chief, Division of Charts



G. R. Fish
Chief, Hydrography Branch



Earl O. Heaton
Chief, Division of Coastal Surveys



LORAN

GENERAL EXPLANATION

FREQUENCY CHANNEL (preceding H)

1.....1950 kc.

BASIC PULSE RECURRENCE RATE

H (high)...33 1/3 pulses per second

SPECIFIC RECURRENCE RATES assigned for station identification (following H)

0, 3,

EXAMPLE: 1H3

RATES ON THIS CHART

1H0 1H3

CAUTION

Skywaves should not be used in determining loran lines of position on this chart

42°10'

71°00'



Chart-1207

PAC

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~DIVISION OF COASTAL SURVEY~~

2 February 1954

Division of Charts: R. H. Carstens

Plane of reference approved in
3 volumes of sounding records for

HYDROGRAPHIC SHEET 8007

Locality Boston Harbor, Massachusetts

Chief of Party: C. R. Reed in 1952

Plane of reference is mean low water, reading
1.8 ft. on tide staff at Weymouth Fore River Bridge
16.2 ft. below B. M. 1 (1926)

1.5 ft. on tide staff at Town River Yacht Club
14.8 ft. below B M 1 (1952)

Height of mean high water above plane of reference is 9.5 feet.

Condition of records satisfactory except as noted below:

E. C. McKay

Section of Tides

Chief, Division of Tides and Currents.

NAUTICAL CHARTS BRANCH

SURVEY NO. H-8007

Record of Application to Charts

[illegible]

M-2168.1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.